

U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.		Serial No.	
					M-11443 US		09/944,732	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicants			
(Use several sheets if necessary)					Smith, Lee John; Zoba, David Albert			
					Filing Date		Group	

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
G	AA	6,005,778	12/21/99	Spielberger, et al.	361	770		
	AB	5,229,647	7/20/93	Gnadinger	257	785		
	AC	3,851,221	11/26/74	Beaulieu, et al.	317	100		
	AD	4,730,232	3/8/88	Lindberg	361	381		
	AE	4,763,188	8/9/88	Johnson	357	74		
	AF	4,982,265	1/1/91	Watanabe, et al.	357	75		
	AG	5,025,306	6/18/91	Johnson, et al.	357	75		
	AH	5,040,052	8/13/91	McDavid	357	80		
	AI	5,140,404	8/18/92	Fogal, et al.	357	70		
	AJ	5,291,061	3/1/94	Ball	257	686		
G	AK	5,323,060	6/21/94	Fogal, et al	257	777		

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
G	AL	62-12661 Eng. Abs.	6/8/87	Japan	H01L	25/04		
	AM	4-56262 Eng. Abs.	2/24/92	Japan	H01L	25/65		
	AN	63-244654 Eng. Abs.	10/12/88	Japan	H01L	23/28		
	AO	5136323 Eng. Abs.	6/1/93	Japan	H01L	23/50		
G	AP	5109975 Eng. Abs.	4/30/93	Japan	H01L	25/065		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	
	AS	

Examiner [Signature] Date Considered 2-9-9

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
G	BA	5,432,729	7/11/95	Carson, et al	365	63			
	BB	5,682,062	10/28/97	Gaul	257	686			
	BC	5,721,452	2/24/98	Fogal, et al.	257	685			
	BD	5,739,581	4/14/98	Chillara, et al.	257	668			
	BE	5,815,372	9/29/98	Gallas	361	760			
	BF	5,872,025	2/16/99	Cronin, et al.	438	109			
	BG	5,886,412	3/23/99	Fogal, et al.	257	777			
	BH	Re. 36,613	3/14/00	Ball	257	777			
	BI	6,051,886	4/18/00	Fogal, et al.	257	777			
	BJ	6,057,598	5/2/00	Payne, et al.	257	723			
G	BK	5,861,666	1/19/99	Bellaar	257	686			
Foreign Patent Documents									
							Translation		
		Document	Date	Country	Class	Subclass	Yes	No	
G	BL	61117858 Eng. Abs.	6/5/86	Japan	H01L	25/08			
	BM	4028260 Eng. Abs.	1/30/92	Japan	H01L	25/065			
	BN	4116859 Eng. Abs.	4/17/92	Japan	H01L	25/065			
	BO	4096358 Eng. Abs.	3/27/92	Japan	H01L	25/065			
G	BP	5013665 Eng. Abs.	1/22/93	Japan	H01L	25/065			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	BQ								
	BR								
	BS								
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G		2-9-4							
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Q	CA	5,165,067	11/17/92	Wakefield, et al.	257	783		
	CB	5,614,766	3/25/97	Takasu, et al.	257	777		
	CC	5,587,341	12/24/96	Masayuki, et al.	437	206		
	CD	5,473,196	12/5/95	De Givry	257	786		
	CE	5,426,563	6/20/95	Moresco, et al.	361	689		
	CF	5,502,289	3/26/96	Takiar, et al.	174	266		
	CG	5,422,435	6/6/95	Takiar, et al.	174	52.4		
	CH	5,334,875	8/2/94	Sugano, et al.	257	686		
	CI	5,198,888	3/30/93	Sugano, et al.	257	686		
	CJ	5,793,108	8/11/98	Nakahishi, et al.	257	723		
Q	CK	5,783,870	7/21/98	Mostafazadeh, et al.	257	791		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
Q	CL	4-368154 A	12/21/92	Japan	H01L	23/00		X
	CM	54-128274 w/Eng. Abs.	4/10/79	Japan	H01L	23/30		X
	CN	1028856 w/Eng. Abs.	1/31/89	Japan	H01L	27/00		X
	CO	1099248 A w/Eng. Abs.	4/18/89	Japan	H01L	25/08	X	
Q	CP	60182731 w/Eng. Abs.	9/18/85	Japan	H01L	21/60		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	CQ							
	CR							
	CS							
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J. M. X		2-9-4						
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Ⓞ	DA	5,973,403	10/26/99	Wark	257	777		
	DB	5,917,242	6/29/99	Ball	257	737		
	DC	5,696,031	12/9/97	Wark	437	209		
	DD	5,637,912	6/10/97	Cockerill, et al.	257	620		
	DE	5,637,536	6/10/97	Val	438	686		
	DF	5,581,498	12/3/96	Ludwig, et al.	365	63		
	DG	5,514,907	5/7/96	Moshayedi	257	723		
	DH	5,495,398	2/27/96	Takiar, et al.	361	790		
	DI	5,495,394	2/27/96	Kornfeld, et al.	361	764		
	DJ	5,463,253	10/31/95	Waki, et al.	257	724		
Ⓞ	DK	5,012,323	4/30/91	Farnworth	357	75		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
Ⓞ	DL	56062351 w/Eng. Abs.	5/28/81	Japan	H01L	25/04		X
	DM	3169062 w/Eng. Abs.	7/23/91	Japan	H01L	25/065		X
	DN	10-256470	9/25/98	Japan	H01L	25/065	X	
	DO	1071162 A Eng. Abs.	3/16/89	Japan	H01L	23/52		X
Ⓞ	DP	5-75015 (A) Eng. Abs. Eng. Abs.	3/26/93	Japan	H01L	25/065		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	DQ							
	DR							
	DS							
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U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
G	EA	4,996,587	2/26/91	Hinrichsmeyer, et al.	357	74		
	EB	4,567,643	2/4/86	Droguet, et al.	29	575		
	EC	5,793,108	8/11/98	Nakanishi, et al.	257	723		
	ED	5,689,135	11/18/97	Ball	257	676		
	EE	5,138,438	8/11/92	Masayuki, et al.	357	75		
	EF	5,347,429	9/13/94	Kohno, et al.	361	813		
	EG	6,080,264	6/27/00	Ball	156	292		
	EH	5,422,435	6/6/95	Takiar, et al.	174	52.4		
	EI	5,569,625	10/29/96	Yoneda, et al.	29	827		
	EJ	5,798,014	8/25/98	Weber	156	263		
G	EK	5,885,849	3/23/99	DiStefano, et al.	438	108		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
G	EL	4-368167 w/Eng. Abs.	12/21/92	Japan	H01L	25/065		X
	EM	5-283601	10/29/93	Japan	H01L	23/52		X
	EN	503 201 A2	12/20/91	EPO	H01L	23/495		
G	EO	64001269 Eng. Abs.	1/5/89	Japan	H01L	25/04		
	EP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	EQ							
	ER							
	ES							
Examiner <i>Jim</i>		Date Considered 2-9-9						
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G	FA	5,952,611	9/14/99	Eng, et al.	174	52.4		
	FB	6,072,243	6/6/00	Nakanishi	257	783		
	FC	6,184,463	2/6/01	Panchou, et al.	174	52.4		
	FD	6,235,554	5/22/01	Akram, et al.	438	109		
	FE	6,214,641	4/10/01	Akram	438	107		
	FF	5,715,147	2/3/98	Nagano	361	813		
	FG	6,133,637	10/17/00	Hikita, et al.	257	777		
	FH	6,034,427	3/7/00	Lan et al.	257	698		
	FI	6,172,419	1/9/01	Kinsman	257	737		
	FJ	6,013,948	1/11/00	Akram et al.	257	698		
G	FK	6,160,705	12/12/00	Stearns et al.	361	704		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
G	FL	61059862 Eng. Abs	3/27/86	Japan	H01L	25/04		
	FM	62119952 Eng. Abs.	6/1/87	Japan	H01L	25/04		
	FN	62126661 Eng. Abs.	6/8/87	Japan	H01L	25/04		
	FO	62142341 Eng. Abs.	6/25/87	Japan	H01L	25/04		
G	FP	63211663 Eng. Abs.	9/2/88	Japan	H01L	25/08		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	FQ							
	FR							
	FS							
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Jm		2-9-9						
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
G	GA	5,903,052	5/11/99	Chen et al.	257	706		
G	GB	6,127,833	10/3/00	Wu et al.	324	755		
G	GC	5,835,355	11/10/98	Dordi	361	760		
	GD							
	GE							
	GF							
	GG							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
G	GH	4056262 w/Eng. Abs.	2/24/92	Japan	H01L	25/065		
	GI	62126661 w/Eng. Abs.	6/8/87	Japan	H01L	25/04		X
	GJ	63128736 w/Eng. Abs.	6/1/88	Japan	H01L	23/04		X
	GK	63244654 w/Eng. Abs.	10/12/88	Japan	H01L	23/28		X
	GL	1019990020939	6/7/99 (App. Date)	Korea	H01L			X
	GM	1019990016319	5/7/99 (App. Date)	Korea	H01L			X
	GN	1019990037925	9/7/99 (App. Date)	Korea				X
G	GO	1019990037928	9/7/99 (App. Date)	Korea				X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	GP							
	GQ							
Examiner		Date Considered						
J. W. W.		2-9-4						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Substitute for form 1449A/PTO

U.S. PUBLISHED PATENT APPLICATIONS

Examiner Initials*	Cited No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Info. Appear

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Info. Appear
Q		6,180,881	B1	Isaak	1/30/2001	
Q		6,452,278	B1	DiCaprio et al.	9/17/2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Foreign Patent Document		Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Info. Appear	T ⁶
		Office ³	Number ⁴					
Q		KR	99-35108		Jun et al.	8/24/1999		
Q		KR	99-65926		Shin et al.	12/30/1999		
Q		KR	99-65934		Shin et al.	12/30/1999		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	U.S. Patent Application No. 09/648,284 filed 8/24/2000

EXAMINER	DATE CONSIDERED
Y	2-9-7

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO NOV 24 2003

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Application Number	09/944,732
Filing Date	8/31/2001
First Named Inventor:	SMITH, Lee John
Examiner: David E. Graybill	GROUP: 2827
Sheet 1 of 2	Attorney Docket Number AMK-11443

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Info. Appear
G	A01	5,273,938		Lin et al.	12/28/93	
	A02	5,474,957		Urushima	12/12/95	
	A03	5,474,958		Djennas et al.	12/12/95	
	A04	5,545,922		Golwalkar et al.	8/13/96	
	A05	5,604,376		Hamburgen et al.	2/18/97	
	A06	5,620,928		Lee et al.	4/15/97	
	A07	5,646,828		Degani et al.	7/8/97	
	A08	5,668,405		Yamashita	9/16/97	
	A09	5,696,666		Miles et al.	12/9/97	
	A10	5,763,939		Yamashita	6/9/98	
	A11	5,777,387		Yamashita et al.	7/7/98	
	A12	5,819,398		Wakefield	10/13/98	
	A13	5,866,949		Schueller	2/2/99	
	A14	5,894,108		Mostafazadeh et al.	4/13/99	
	A15	5,977,640		Bertin et al.	11/2/99	
	A16	5,986,317		Wiese	11/16/99	
	A17	6,001,671		Fjelstad	12/14/99	
	A18	6,060,778		Jeong et al.	5/9/00	
	A19	6,100,804		Brady et al.	8/8/00	
	A20	6,107,689		Kozono	8/22/00	
	A21	6,118,184		Ishio et al.	9/12/00	
G	A22	6,198,171		Huang et al.	3/6/01	
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 2-9-4		

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A	A23	6,395,578	B1	Shin et al.	5/28/02	
	A24	6,399,418	B1	Glenn et al.	6/4/02	
	A25	6,501,184	B1	Shin et al.	12/31/02	
	A26	6,515,356	B1	Shin et al.	2/4/03	
G	A27	6,541,854	B2	Huang et al.	4/1/03	
EXAMINER <i>gzm</i>				DATE CONSIDERED 2-9-4		

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